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## Patent Abstracts of Russia

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(54) SORBENT BASED ON ALUMINIUM OXIDE	
(57) Abstract: FIELD: medicine. SUBSTANCE: sorbent based on aluminium oxide is resistant to hydration and dissolving provides for use of matrix of aluminium oxide of definite porous structure which consists of not less than 50% of *kappa*-shaped phase and modification of its surface with carbon in amount of 3-12 mas. %. Sorbent features high sorptive properties in cleaning from organic substances. EFFECT: highly efficient in purification of aqueous solutions from organic impurities, bacterial cells. 3 tbl	
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PAR Result



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<p>95-253242/33 B07 C07 D16 J01 (D13 D15 J04) SORBI STOCK CO 92.12.14 92RU-008946 (95.01.20) B01J 20/08, 20/20 New sorbent based on aluminium oxide for purificn. of aq. solns. - contains aluminium oxide matrix of not less than 50 per cent of kappa phase and has specific surface of 90-180 metres squared per g C95-115875 Addnl. Data: BURYLIN S YU, RACHKOVSKAYA L N, FROLOVA I I</p>	<p>BC(5-A3B) D(3-H1Q, 4-B, 5-A3A) J(1-D1) . I catalyst carriers and enzyme carriers.  <u>ADVANTAGE</u> Creates a porous, stable-to-hydration sorbent based on aluminium oxides for purificn. of aq. solns. from organic cpds. and bacterial cells.  <u>EXAMPLE</u> Aluminium oxide contg. 80% of the kappa-like phase (the rest gamma and X-ray amorphous aluminium oxide), modified with 8% of carbon with a real density of 3.0 g/cm<sup>3</sup> and specific surface of 150 m<sup>2</sup>/g. The vol. of pores with a radius of 100-1,000 angstrom was 0.03 cm<sup>3</sup>/g, with a radius of 1,000-10,000 angstrom was 0.08 cm<sup>3</sup>/g. Adsorption of the cells of staphylococci and enteric bacilli in experimental conditions was 72 and 70% respectively. Adsorption of vitamin B<sub>12</sub> in the given conditions was 41% from the initial concn. respectively. The content of Al<sub>2</sub>O<sub>3</sub> in water after boiling of the sorbent was 70 µg/ml. (KKG) (3pp2302DwgNo.0/0)</p>
<p>RU 2026734-C</p>	<p>USE Used as a sorbent for medical, veterinary and food industry applications esp. for the purificn. of sewage waters and exhaust gases, in the chemical biotechnological industries as sorbents, catalysts, and</p>